

ABSTRACT OF THE DISCLOSURE

Disclosed is an electronic circuit for the bidirectional conversion of a high input voltage to a direct-current output voltage with indirect coupling, more specifically such a circuit for use in a power supply system for rail vehicles, that is provided with a primary converter, one single common transformer and a secondary converter. The primary converter includes at least three primary converter sections connected in series, the output lines of which are each connected to a respective one of the transformer primary windings.